

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	2	("4157561").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/08 20:51
S2	6	("3997910").PN. OR ("4157561"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/13 10:05
S3	14	("3524113"   "3579060"   "3911461"   "4126879"   "4157561"   "4231059"   "4252582"   "4443810"   "4786959"   "4835588").PN. OR ("5736755").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/21 11:40
S4	2	("20060076647").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/08 21:31
S5	1	"02102731.3"	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/13 07:45
S6	0	"02102731.3"	EPO; JPO; DERWENT	OR	ON	2006/11/13 07:44
S7	0	(axle with naethe).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/13 07:45
S8	8	(axel with naethe).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/13 07:45
S9	6	("3997910").PN. OR ("4157561"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/13 08:35

## EAST Search History

S10	285	(257/575).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/13 08:40
S11	105434	base with resistor	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/13 08:41
S12	6	S10 and S11 and (series with resistor)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/13 08:47
S13	6	257/573.ccls. and ring	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/13 10:06
S14	28	S10 and ring	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/13 10:06
S15	0	("2004/0207046").URPN.	USPAT	OR	ON	2006/11/13 10:09
S16	0	("2004/0207046").URPN.	USPAT	OR	ON	2006/11/13 10:10
S17	12	257/572.ccls. and ring	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/13 10:12
S18	32	257/575.ccls. and ((base with resistor) (resistor with emitter with dop\$3))	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/13 10:16
S19	33	257/578.ccls. and ((base with resistor) (resistor with emitter with dop\$3))	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/13 10:16
S20	8	("4054898"   "4151542"   "4157561"   "4291319"   "5089873"   "5723897").PN. OR ("6303973").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/13 10:18
S21	6	("3997910").PN. OR ("4157561").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/13 10:19
S22	14	("4157561"   "4647958"   "5021856"   "5139961"   "5169794"   "5219784"   "5234847").PN. OR ("5572063").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/13 10:26

## EAST Search History

S23	1560532	(emitter region) and (collector region) and (base region)	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/13 10:26
S24	0	("jp-53054977-\$.did.").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/13 10:27
S25	0	("0054977").PN.	JPO	OR	OFF	2006/11/13 10:27
S26	1	jp-53054977-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/13 10:28
S27	105434	(base with resistor)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/13 10:28
S28	67676	S23 and S27	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/13 10:29
S29	1482	S28 and (ring with resistor)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/13 10:30
S30	1012	S29 and (resistor with series)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/13 10:30
S31	1012	S29 and (resistor with series)	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/13 10:31
S32	0	("6943387").URPN.	USPAT	OR	ON	2006/11/13 10:32

## EAST Search History

S33	11	("20010010388"   "20030218185"   "6045614"   "6462362"   "6472679"   "6472680"   "6521917"   "6576937"   "6627925"   "6639300"   "6677625").PN. OR ("6943387").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/13 10:33
S34	12	S31 and (emitter with (doped doping dopant))	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/13 10:41
S35	89	257/582.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/13 10:42
S36	4	S35 and (internal\$2 with resistor)	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/13 10:43
S37	14	("3524113"   "3579060"   "3911461"   "4126879"   "4157561"   "4231059"   "4252582"   "4443810"   "4786959"   "4835588").PN. OR ("5736755").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/13 11:32
S38	207	power same (lateral near bipolar near transistor)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/20 11:54
S39	124934	emitter same collector same base	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/20 11:54
S40	20506	((ring near shape\$2) (ring-shap\$2) (ring near segment\$2)) same base	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/20 11:57
S41	2	S38 and S39 and S40	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/20 12:17

## EAST Search History

S42	1562	lateral near bipolar near transistor	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/20 18:23
S43	27145	S39 same parallel	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/20 12:18
S44	2	S42 and S43 and S40	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/20 14:11
S45	2	("4196440"   "4546536").PN. OR ("6365957").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/20 12:19
S46	48	("3524113"   "3615939"   "3971059"   "3993513"   "4089992"   "4104086"   "4196440"   "4378630"   "4481706").PN. OR ("4546536"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/20 12:24
S47	9	S42 and S40	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/20 12:35
S48	186934	ring-shap\$2 (ring near segment\$2) (ring near shap\$2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/20 13:08
S49	2	S42 and S43 and S46	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/20 13:08

## EAST Search History

S50	14	S42 and S46	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/20 13:08
S51	14	(US-20040207046-\$ or US-20020000567-\$).did. or (US-5939768-\$ or US-6943387-\$ or US-6303973-\$ or US-4157561-\$ or US-6365957-\$ or US-5045493-\$ or US-4546536-\$ or US-4669177-\$ or US-3615939-\$ or US-6838348-\$ or US-6770952-\$ or US-5376823-\$). did.	US-PGPUB; USPAT	OR	ON	2006/11/20 13:48
S52	5	S51 and (resistor)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/20 13:59
S53	11	("20010010388"   "20030218185"   "6045614"   "6462362"   "6472679"   "6472680"   "6521917"   "6576937"   "6627925"   "6639300"   "6677625").PN. OR ("6943387"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/20 13:56
S54	3	S53 and resistor	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/20 13:56
S55	13	S51 and (resist\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/20 14:00
S56	8	S55 and parallel	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/20 14:01
S57	0	"107286"	JPO	OR	ON	2006/11/20 14:01
S58	0	"2002-107286"	JPO	OR	ON	2006/11/20 14:01
S59	1	"2002107286"	JPO	OR	ON	2006/11/20 14:01
S60	0	(isao near ohbu).in.	JPO	OR	ON	2006/11/20 14:02

## EAST Search History

S61	0	(isao with ohbu).in.	JPO	OR	ON	2006/11/20 14:02
S62	0	"063047"	JPO	OR	ON	2006/11/20 14:03
S63	1	jp-2003063047-\$.did.	JPO	OR	ON	2006/11/20 14:03
S64	114	S42 and S43	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/20 14:11
S65	52	S42 and S43 and (resist\$4 same dop\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/20 18:03
S66	124934	emitter same collector same base	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/20 18:24
S67	1562	lateral near bipolar near transistor	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/20 18:24
S68	27145	S66 same parallel	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/20 18:24
S69	114	S67 and S68	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/20 19:51

## EAST Search History

S70	54	S67 and (emitter with collector with base with parallel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/20 19:51
S71	6077	sbc (standard near buried near collector)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/21 11:41
S72	6456	sbc (standard near buried near collector) isoplanar	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/21 11:41
S73	1562	lateral near bipolar near transistor	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/21 11:42
S74	7	S72 and S73	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/21 11:48
S75	1397	257/341-342.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/21 11:55
S76	7	S73 and S75	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/21 11:56



## EAST Search History

S77	2041	(257/162,341,342,343,E29.045,E27.023).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/21 11:56
S78	0	("L17andL3").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/21 11:57
S79	46	S73 and S77	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/21 11:57
S80	6	("3997910").PN. OR ("4157561").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/21 12:48
S81	4	S80 and (resist\$4 and parallel)	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/21 12:50
S82	0	jp-53054977-\$.did.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/21 12:51
S83	0	jp-1978054977-\$.did.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/21 12:50
S84	1	jp-53054977-\$.did.	JPO	OR	ON	2006/11/21 12:51